

ALADINSKIY, P.I.; ARONSKIND, S.Sh.; GLAZKOVSKIY, V.A.; KVASKOV, A.P.;
SUVCOROV, F.S.; SHMANENKOV, I.V., redaktor; BASMAKOV, V.A.,
redaktor; SEMENYINA, N.A., redaktor; MAIHA, M.P., tekhnicheskiy
redaktor

[Results of the organization and work of an ore-dressing laboratory]
Opyt organizatsii i raboty obogatitel'noi laboratorii. Trudy lab.
geol.upr. no.3:3-57 '52. [Microfilm] (MLRA 7:11)
(Ore dressing)

KVASKOV, A.P., kandidat tekhnicheskikh nauk

Some regularities in dry magnetic separation of magnetite ores.
Gor.zhur. no.1:51-58 Ja '55. (MIRA 8:?)
(Magnetic separation of ores) (Magnetite)

SOV/137-58-9-18293

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p10 (USSR)

AUTHORS: Suvorov, F.S., Kvaskov, A.P.

TITLE: The Concentration of Magnetite Ores of Northern Ural (Obogashcheniye magnetitovykh rud Severnogo Urala)

PERIODICAL: Tr. N.-i. i proyektn. in-ta "Uralmekhanobr", 1957, Nr 1, pp 98-105

ABSTRACT: The results are given of the investigation of the feasibility of concentration of Fe ores from the Northern Ural originating at the Auerbakhovsk, Severo-Peschanskoye, Maslovo, and the 2nd Severnyy mines, which constitute the raw material base for the Serov metallurgical plant. The magnetite ores of the deposits enumerated contain magnetite, hematite, martite, limonite, pyrite, pyrrhotite, chalcopyrite, covellite, and sphalerite. The Fe content of the ore mass is 30 - 50%. According to the conditions of the plant the agglomerate should contain 55 - 58% Fe, up to 0.1% Cu and \geq 0.15% P. The dressing procedure developed includes the following main operations: a) crushing of the initial ore to 25(35) - 0mm and dry separation; b) wet magnetic separation for obtaining the

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The Concentration of Magnetite Ores of Northern Ural

Fe concentrate; c) apatite flotation to remove the phosphorus; d) sulfide flotation to obtain Cu and Cu- FeS_2 concentrate; d) magnetic control separation of the tailings of the flotation for supplementary extraction of Fe; e) agglomeration of the Fe concentrates. The results of the investigation of the feasibility of concentrating ores of the Northern Ural deposits are laid as the basis for the layout of the Serov ore-dressing plant.

1. Magnetite ores--Concentration 2. Magnetite ores--Test results E. V.

Card 2/2

KVASKOV, A. P.

137-58-5-8729

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 2 (USSR)

AUTHOR: Kvaskov, A. P.

TITLE: Present State of the Iron-ore Concentrating Industry in the Ural Region and Ways for its Future Development (Sovremennoye sostoyaniye i puti razvitiya obogashcheniya zheleznykh rud na Urale)

PERIODICAL: Byul.Gorn. o-va Sverdlovsk, 1957, Nr 3, pp 66-72

ABSTRACT: Bibliographic entry

1. Iron industry--USSR 2. Iron ores--Processing

Card 1/1

IVASKOV, A.P., Doc Tech Sci--(diss) "Technologic^y evaluation of magnetite
ore^s and rational schemes of their enrichment. [] 1958. 24 pp
(Acad Sci USSR. Inst of Mining []), 150 copies (II, 47-58, 132)

- 33 -

SOV/137-59-2 2563 K

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 2, p 41 (USSR)

AUTHOR: Kvaskov, A. P.

TITLE: Technique and Procedures for Concentration of Iron Ores of the Magnetite Type (Tekhnologicheskaya kharakteristika i skhemy obogashcheniya zheleznykh rud magnetitovogo tipa)

PERIODICAL: Vses. n.-i. i proyektn. in-t mekhan. obrabotki poleznykh iskopayemykh, Nr 105, Leningrad, 1958, 159 pp, ill. r.10.00

ABSTRACT: Data on the practice of concentration of magnetite ores in the USSR and abroad are examined and compared in the monograph. The fundamental laws governing the process of magnetic separation of strongly magnetic ores are developed and the principal experimental works on the study of the productivity and optimum procedure for wet and dry magnetic separators are correlated. Ways for perfecting the technique of concentrating magnetite ores are designated and substantiated. Rational flowsheets for concentrating Fe ores of the magnetite type are examined in relation to the special properties of their material composition.

Card 1/1

M. Z.

BATANOV, Aleksandr Ivanovich. Prinimali uchastiye: SISOLYATIN, S.A.,
kand. tekhn. nauk; ARASHKEVICH, V.M.; KVASKOV, A.P., doktor tekhn.
nauk, retsenzent; GIBELEV, I.T., inzh., retsenzent; KRASNOV, G.V.,
inzh., retsenzent; NIKOLENKO, S.V., inzh., retsenzent; SOL'VAR,
A.V., inzh., retsenzent; CHURIKOV, A.N., inzh., retsenzent; ROMANOVA,
L.A., red. izd-va; BOLDYREVA, Z.A., tekhn. red.; PROZOROVSKIY, Ye.G.,
tekhn. red.

[Iron ore dressing] Obogashchenie rud chernykh metallov. Moskva,
Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 423 p.
(MIRA 14: 9)

1. Obogatitel'nyye fabriki Gornogo upravleniya Magnitogorskogo me-
tallurgicheskogo kombinata (For Gibelev, Krasnov, Nikolenko, Sol'-
var, Churikov)

(Ore dressing)

DMITRIYEV, Yu.G.; IZMODENOV, A.I.; IZMODENOV, Yu.A.; KVASKOV, A.P.
NAGIRNYAK, F.I.

Magnetizing roasting of Lisakovskoye deposit ores without a reducing agent. Gor zhur. no. 6:57-60 Je '61. (MIRA 14:6)
(Kustanay region--Iron ores)
(Ore dressing)

TOMCHUK, V.S., inzh.; KVASKOV, A.P., doktor tekhn.nauk

Conditions of separating mineral particles in heavy suspension
in a hydraulic cyclone. Izv. vys. ucheb. zav.; gor. zhur. 5
no.3:154-158 '62. (MIRA 15:7)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo
instituta mekhanicheskoy obrabotki poleznykh iskopayemykh.
(Separators (Machines))

KVASKOV, A.P., doktor tekhn.nauk (Sverdlovsk); OSINTSEV, A.S., doktor ekonom.nauk (Sverdlovsk); ROZNOVSKIY, A.A., inzh. (Sverdlovsk)

Complete use of Ural iron ores. Gor.zhur. no.2:54-58 F '63.
(MIRA 16:2)
(Ural Mountains—Iron ores) (Ore dressing)

KVASKOV, L., student.

Differential formulas of rectangular coordinates in Gauss's projection.
Trudy MIIGAIK no.20:35-44 '55. (MLRA 10:1)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i
kartografii, Kafedra vysshey geodezii.
(Map projection)

KVASKOV, L.Ya.; BYDINOV, V.Ya.

Investigating the speed of displacement of indicators of spring
measuring heads (spring micrometers). Trudy VNIK no.4:48-53 '60.
(MIRA 13:12)

(Micrometer—Testing;)

ACC NR: AP7002702

SOURCE CODE: UR/0115/66/000/012/0005/0007

AUTHOR: Kvaskov, L. Ya.

ORG: none

TITLE: Evaluation of luminous intensity in a two-beam interferometer

SOURCE: Izmeritel'naya tekhnika, no. 12, 1966, 5-7

TOPIC TAGS: interferometer, two beam interferometer, luminescence

ABSTRACT: The evaluation of the luminous intensity of the flux entering a photomultiplier is necessary when the latter is used for recording interference patterns. A two-beam interferometer with a semitransparent plate is considered. Based on the J. Peters approach (Mesures, 1962, no. 296), the attenuation of the luminous flux in the interferometer system is calculated, and a formula for the luminous flux entering the photomultiplier is derived; it shows that the modulation of this flux depends not only on the contrast factor but also on the width of the photodetector slit. The half-width of the spectral line used affects both: (a) the smaller band contrast associated with greater path difference of component beams and (b) the total luminous intensity of the interference pattern. Orig. art. has: 2 figures and 19 formulas.

SUB CODE: 20 / SUBM DATE: 10Apr66 / ORIG REF: 001 / OTH REF: 001

535.411.001.5:531.71

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1 1518-65
ACCESSION NR: AP4046787

S/0115/64/000/008/0016/0019

AUTHOR: Kvaskov, I. Ya.

B

TITLE: Low-range reversible counter of interference

SOURCE: Izmeritel'naya tekhnika, no. 8, 1964, 15-19

TOPIC TAGS: interference band, interference band counter

ABSTRACT: An outfit with a reversible interference-band counter having a 50-band range and one-band error was developed. The use of single-stage FEU-2 photomultipliers permitted eliminating the high-voltage supply. The relative shift of the two sets of interference bands by a quarter-period is performed by adjusting the slit position. A 40-mv input signal can operate the electron-tube amplifier. The optical system, photomultiplier system, and the binary counter proper (6 electron-tube counting sections) are described in some detail. Orig. art. has: 4 figures and 6 formulas.

ASSOCIATION: none

ENCL: 00

SUBMITTED: 00

OTHER: 001

SUB CODE: EC, OP

NO REF SOV: 002

Card 1/1

KVASKOV, L.Ya.

Investigating the M-3 level tester. Truly VNIIK no.4:54-57 '60.
(MIRA 13:12)

(Level (Tool)--Testing)

KVASKOV, L.Ya.

Linear and optical measuring instruments at the Exhibition of the
German Federal Republic. Izm. tekhn. no. 1:63-64 Ja '61.

(MIRA 14:1)

(Moscow--Exhibitions)
(Germany, West--Measuring instruments)

L 33547-62 ENR(j)/EWA(k)/FBD/ENT(1)/EEC(k)-2/ECC(t)/I/EEC(b)-2/EWP(k)/EWA(m)-2/
EWA(h) Pr-4/Po-4/Pf-4/Peb/Pl-4/Pl-4 IJP(c) WG

ACCESSION NR: AP5009239

S/0115/65/000/001/0050/0053

58
B

AUTHOR: Grin, G. L.; Kvaskov, I. Ya.

TITLE: An exhibition--Fifteen years of the German Democratic Republic

SOURCE: Izmeritel'naya tekhnika, no. 1, 1965, 50-53

TOPIC TAGS: gas laser, solid state laser, laser/ ZGL 900 laser, MFL 750 laser

ABSTRACT: An exhibition entitled, "Fifteen Years of the German Democratic Republic," held in Moscow from 3 October to 1 November 1964, featured two East German lasers. The ZGL-900 gas laser consists of a cavity, a high-frequency oscillator, and a power supply. The operating wavelength is 1.153μ , and the quartz-stabilized oscillator delivers from 2 to 80 watts in steps at 40, 65 Mc. The unit includes multilayer plane and hemispherical mirrors ($R = 1$ m and $R = \infty$, respectively) with a reflection coefficient of about 99%. The mirrors are mounted on and adjusted by 4 invar rods. The laser head with oscillator is 1090 x 130 x 500 mm and the power supply unit is 405 x 210 x 305 mm. Total weight is 30 kg.

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L 33547-65

ACCESSION NR: AP50C9239

The ZFL-750 solid-state laser was demonstrated as an integral part of a device for drilling and inspecting small holes. The laser rod is 45 to 50 mm long and 3—7 mm in diameter. Its xenon flash lamp is driven by a 1000—3000-v power supply. The air-cooled laser yields from 3 to 12 pulses per sec. The laser head is 140 x 120 x 180 mm and the power supply unit is 350 x 430 x 640 mm. Total weight is 80 kg. Solid-state laser resonators for six different wavelengths from 7082 to 25,560 Å were shown separately.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF Sov: 000

OTHER: 000

ATT PRESS: 3193-F

Card 2/2

KVASMAN, M. G.

Vliianie fosfora na usadku chuguna i obrazovanie treshchin v otbeleranoi chasti chugunnykh koles Gri ffina. (Vestn. Mash., 1948, no. 4, p. 42-46)

Effect of phosphorus on the shrinkage of cast iron, and formation of cracks in the chilled part of Griffin wheels.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SOV/137-57-10-19268

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 118 (USSR)

AUTHORS: Begun, B.Ye., Kvasman, M.G., Yudin, Ye.I.

TITLE: Experiences in the Making of Cast-iron Crankshafts for Main-line Diesel Locomotives (Opyt izgotovleniya litykh chugunnykh kolenchatykh valov dlya magistral'nykh teplovozov)

PERIODICAL: Tekhnologich. transp. mashinostroyeniya, 1957, Nr 2, pp 12-18

ABSTRACT: The casting of crankshafts for the 2000-hp D-100 Diesel has been perfected at the Khar'kov Transportation Equipment Plant. Shafts weighing 1740 and 1490 kg are cast from pig iron of the following % contents: C 2.2-2.4 and alloyed Mo 1, Cr 0.6 and Ni 1. On rupture, σ_b (tension) > 35 kg/mm² and σ_b (bending) > 70 kg/mm². Utilization of metal when the blank is cast is close to 47%, while only 14% of the metal can be used in forging. Horizontal pouring is recommended in single-unit production, as inclined and vertical pouring require the construction of pouring fixtures, although they do increase the yield by 50% relative to horizontal and reduce machining to a minimum. The optimum pouring temperature is 1360-1370°C. A thermit

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SOV/137-57-10-19268

Experiences in the Making of Cast-iron Crankshafts (cont.)
mixture is poured over the risers. The blanks are heat-treated after roughing to relieve stress. Gamma-radiation is used to inspect for internal faults.
E.Sh.

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SOV/128-59-6-2/25

18(5)

AUTHOR: Kvasman, M.G., Zav'yalov, A.M. and Tunik, A.A., Engineers

TITLE: Some Factors Affecting the Quality of Cast Iron Crankshafts

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 6, pp 4-5 (USSR)

ABSTRACT: Pouring of crankshafts for diesel engines is a complicated process. In the following, several test results obtained by the working group of a metallurgical plant during 1958 are published. They were made to find the reasons for damage to the individual components of the crankshafts in connection with their design and their chemical properties. These defects or damages are: blisters and porous areas, the appearance of which is linked to their heat treatments. Diesel engines of the type 2 D 100 have two crankshafts: the lower one with a length of 3.860 mm (weight 1,740 kg), and the upper one with a length of 3.750 mm (weight 1.490 kg). (a drawing of the crankshaft is given on page 3 of this periodical

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SOV/128-59-6-2/25

Some Factors Affecting the Quality of Cast Iron Crankshafts

dical). It is a crankshaft made from alloyed cast iron (alloyed with Mo, Ni, Cr, etc.). (At this time the plant is carrying out experiments to produce such crankshafts from magnesium type cast iron). The defects appearing have been observed at this plant for over a year. From one table it is clear that not one single bearing area of the connecting rods big end bearings has been without defect. The number and the location of the defects differ at the different big end bearings. To demonstrate that not the temperature of pouring, but the chemical properties of the casting material have been the reasons for such defects, a crankshaft had been produced from sulphurous cast iron of the type S Ch 21-40. Neither blisters nor porous areas had been detected on this casting. In 1957, the observations showed that the number of the defects increased with the increase of the C and Si (especially C 3 Si) contents of the material. One table lists the results of the observations during 1957 and 1958 for comparison.

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Some Factors Affecting the Quality of Cast Iron Crankshafts

There are 3 tables, 1 diagram and 3 graphs.

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S/128/60/000/010/007/016/XX
A033/A133

AUTHORS:

Kvasman, M. G.; Tunik, A. A., and Begun, B. Ye.

TITLE:

Casting large diesel engine crankshafts

PERIODICAL:

Liteynoye proizvodstvo, no. 10, 1960, 13 - 15

TEXT:

The authors report on the manufacture of cast iron crankshafts for the D 100 (D 100) diesel locomotive engine, which has 10 connecting rod journals and 12 crank journals. All journals are hollow and the crankshafts are fabricated according to a technology described by B. Ye. Begun et al. [Ref. 1: "Tekhnologiya transportnogo mashinostroyeniya", no. 2, 1957], M. G. Kvasman et al. [Ref. 2: "Liteynoye proizvodstvo, no. 6, 1959] and M. R. Rotenberg, V. I. Soldatenko. [Ref. 3: "Liteynoye proizvodstvo, no. 6, 1959]. To eliminate some essential technological deficiencies of the cast crankshafts, of which the most important one is the origination of black spots as a result of non-metallic sulfide inclusions, investigations were carried out in which A. A. Novik, L. D. Dobrynina, S. F. Krivtsov and V. I. Korsakov participated. To increase the productivity in big-bore production two crankshafts were cast in one flask of 5,360 x 1,100 x 400 mm, instead of

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A033/A133

Casting large diesel engine crankshafts

one crankshaft in 5,360 x 900 x 400 mm flasks. The molds were rammed with the 296M sandslinger. These measures resulted in a cut in labor consumption of molding and assembling operations of 25% and a saving of 1.5 m³ molding sand per crankshaft. In order to eliminate the cutting off of shrinkage heads narrowed diaphragms and easily removable shrinkage heads were used. The diaphragms were roasted in a reducing atmosphere in metal containers. The cast iron is smelted in a 5-ton acid electric furnace with a solid charge consisting of 30 - 50% М8К(PVK) forge iron, 20 - 30% LK3 and LK4 - ГОСТ (GOST) 4832-58 foundry iron, 15 - 20% carbon steel scrap and up to 40% shaft waste. The mechanical properties of the crankshafts should be as follows: σ_{end} ≥ 45 kg/mm², δ ≥ 1.0%, and HB in the range of 207 - 302. Up to 30% ferrite and 8% cementite are allowed in the microstructure. Without any special heat treatment and after the treatment with magnesium and modification with 75% ferro-silicon the cast iron should contain: 2.8 - 3.2% C; 2.2 - 2.6% Si; 5.3 - 5.7% (C+Si); 0.5 - 0.9% Mn; ≤ 0.10% P; ≤ 0.025% S; ≤ 0.25% O₂; ≤ 0.4% N₂ and 0.025 - 0.1% Mg. An increase in the pouring temperature to 1,370°C and higher made the non-metallic inclusions, causing the origination of black spots, float up to and concentrate near

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A033/A133

Casting large diesel engine crankshafts

the surface, where they could be eliminated during the roughing operation. Magnesium is added in quantities of 0.55% (28 kg per 5 tons of cast iron), while the cast iron is modified with 1.1 - 1.3% (of the weight of the liquid metal) of 75% ferro-silicon. The authors comment upon the optimum modification technology and point out that the results of the mechanical processing and investigations of mechanical properties have shown that the addition of gray cast iron and the recasting of the cast iron caused an increased origination of black spots. When the cast iron was treated with cryolite (of the grades K1 and K2 TsMTU 952-41) which was added together with the magnesium, the black spots were eliminated and a stable level of mechanical properties was obtained. There are 8 figures and 6 Soviet-bloc references.

Card 3/3

KVASNAYA, L.G.; VORONTSOV, I.M.

Content of mucoproteins in the blood of infants during their
first days of life. Vop. gemat. v pediat. no.3:22-27 '64.
(MIRA 18:7)

KVASNAYA, L.G.

Routes of penetration of infection in newborn infants. Vop. okhr.
mat. i det. 6 no. 1:59-64 Ja '61. (MIRA 14:4)

1. Iz kafedry gospital'noy pediatrii (zav. - prof. A.F. Tur)
Leningradskogo pediatriceskogo meditsinskogo instituta (dir. ..
kand.meditsinskikh nauk Ye.P. Semenova).
(INFANTS (NEWBORN)) (INFECTION)

KVASNAYA, L.G., dotsent; MIRONOVICH, V.K., dotsent

"Propaedeutics of children's diseases" by V.I.Molchanov and
others. Reviewed by L.G.Kvasnaya and V.K.Mironovich. Vop. okh.
mat. i det. 6 no.11:91-94 N '61. (MIRA 14:12)
(CHILDREN-DISEASES) (MOLCHANOV, V.I.)
(DOMBROVSKAYA, Yu.F.) (LEBEDEV, D.D.)

KVASNAYA, L.G., dotsent

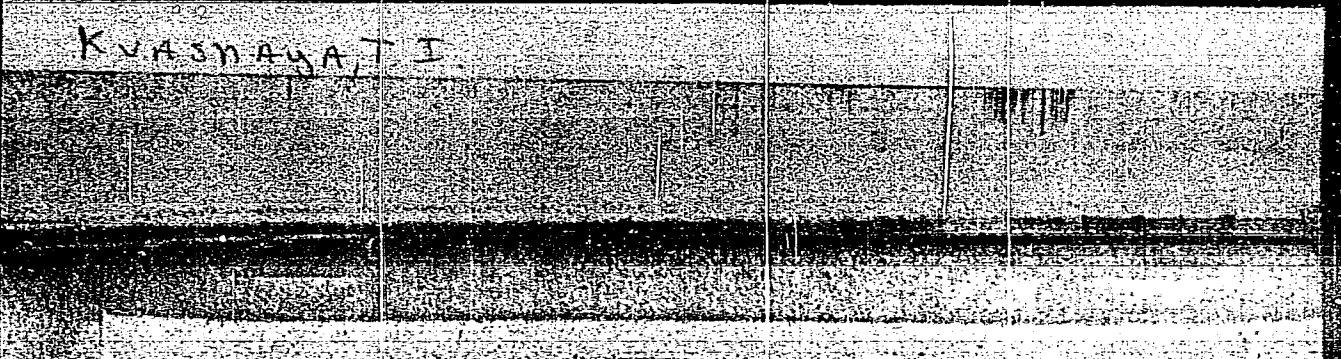
Diagnosis and treatment of sepsis in infants. Vop. okh.
mat. i det. 7 no.1:15-21 Ja '62. (MIRA 15:3)

1. Iz kafedry gospital'noy pediatrii (zav. - deystvitel'nyy chlen AMN SSSR prof. A.F. Tur) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - dotsent Ye.P. Semenova).
(INFANTS (NEWBORN)--DISEASES)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310013-4

KVASHNAYA, T. I.



APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310013-4"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310013-4

J. J. Vassallo and R. V. Mihnev. U.S. P. 104701. Feb
25, 1907. Goo black, lampblack, or soot; fine black is added
to nitrocellulose starch to increase its water resistance and
elasticity.

M. J. Geoch

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310013-4"

LYUBINSKIY, Ya.S., KVASNEVSKIY, A.N.

Device for straightening grinding wheels. Mashinostroitel'
no.1:29 Ja '65. (MIRA 18:3)

KVASNICKA, Jan

Absorbed power of rotary agitators of liquids. Chem prum 14 no.5:
230-235 My '54.

1. Research Institute, Kralovepoliske strojirny, Brno.

CERNOCH, Zdenek; KREN, Vitezslav; KVASNICKA, Jiri; SLEZAK, Premysl

The significance of lumbar aortography in hypertensive patients.
Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:155-159 '64.

1. Radiologicka klinika (prednosta: prof. MUDr. J. Bastecky,
DrSc.) a I. interni klinika (prednosta: prof. MUDr. F. Cernik)
Karlov University v Hradci Kralove.

KRCH, Vaclav; ERBEN, Josef; GROH, Jindrich; BARTOS, Vladimir; KVASNICKA,
Jiri; BALCAR, Zdenek

The course of hemodialysis in elderly patients with acute
renal failure. Sborn. ved. prac. lek. fak. Karlov. Univ.
9 no.1:397-408 '64.

1. I. interni klinika (prednosta: prof. MUDr. F. Cernik),
Karlov University v Hradci Kralove.

KVASNICKA, Jiri, inz.

Use of jet engines on railroads. Zel dop tech 12 no. 78
190 '64.

KVASNICA, J.

CZECHOSLOVAKIA/Nuclear Physics - Penetration of Charged and Neutral C
Particles Through Matter.

Abs Jour : Ref Zhur Fizika, No 1, 1960, 601
Author : Kvasnica, Josef
Inst :
Title : Theory of Cherenkov Radiation
Orig Pub : Pokroky mat., fys, a astron., 1959, 4, No 3, 302-
308
Abstract : No abstract.

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06633

AUTHOR: Kvasnica, Josef CZECH/37-59-5-9/13
TITLE: New Attempts Towards a Universal Theory of Elementary Particles
PERIODICAL: Československý časopis pro fysiku, 1959, Nr 5
pp 527 - 546
ABSTRACT: This is a review article. The paper sums up the successes and difficulties of the theory of elementary particles and different attempts at removing these difficulties. Particular attention is paid to Heisenberg's last papers on a spinor model of elementary particles.
There are 65 references, 14 of which are Czech, 27 English, 9 Soviet, 1 international and 14 German.
ASSOCIATION: Fakulta technické a jaderné fysiky, Praha
(Faculty of Technical and Nuclear Physics, Prague)
SUBMITTED: March 17, 1959

Card 1/1

24,6510

81757
Z/037/60/000/04/010/014
E073/E535

AUTHOR: Kvasnica, Jozef

TITLE: Electromagnetic Structure of Nucleons /9

PERIODICAL: Československý časopis pro fysiku, 1960, No 4,
pp 333-348

ABSTRACT: This is a review paper. It is stated that the greatest progress was achieved in studying the scatter of fast electrons ($E > 100$ MeV), particularly due to the efforts of a group directed by R. Hofstadter (Refs 1 to 3). The author does not deal with the technique of their experiments since they do not present anything basically new but he deals in the first instance with the theoretical assumptions on which the interpretation of these experiments is based. In the conclusions it is stated that the accuracy of experiments relating to the scatter of fast electrons on nucleons is inadequate for enabling an unequivocal choice between the various nucleon models. From theoretical analysis it is obvious that the existence Card 1/2 of a nucleon nucleus permits natural elucidation of 4

81757

Z/037/60/000/04/010/014
E073/E535**Electromagnetic Structure of Nucleons**

certain apparently paradoxical results (equal magnetic but differing electrical structure of protons and neutrons) and, furthermore, it provides satisfactory quantitative agreement. For this reason the author did not analyse various speculative explanations of the small electric radius of electrons. The consistency between the electric and magnetic dimensions of the nucleon seems to indicate that in the given range of energies, $E \gtrsim 500$ MeV, the deviations from the laws of quantum electrodynamics are not decisive. Acknowledgments are expressed to Corresponding Member of the Czechoslovak Academy of Sciences Professor Doctor V. Votruba for useful discussions and comments, to the Pro-Dean of the Department of Technical and Nuclear Physics, Doctor C. Sc. L. Valenta for critical comments and to Assistant A. Vančura for drawing the graphs. There are 9 figures and 30 references, 3 of which are Soviet, 1 German and 26 English.

ASSOCIATION: Fakulta technické a jaderné fysiky, Praha (Department of Technical and Nuclear Physics, Prague)

SUBMITTED: February 9, 1960

KVASNICA, Josef (Praha)

Models of atomic nuclei. Part 2. Pokroky mat fyz astr 6 no.6:318-326
'61.

Z/028/62/000/004/001/002
1037/I237

AUTHOR: Kvasnica, Josef, Prague

TITLE: The electromagnetic structure of atomic nuclei and nucleons

PERIODICAL: Pokroky matematiky fysiky astronomie, no. 4, 1962, 210-222

TEXT: Theoretical considerations are given for the experimental investigation of the electromagnetic structure of atomic nuclei and nucleons with the help of high energy electrons (ϵ greater than 200 M.e.v.).
The scattering of electrons by a nucleus carrying a neutralised electrical charge is given by

$$d\sigma = d\sigma_n [F(q)^2] \quad (11)$$

where $d\sigma$ is the differential cross-section for elastic scattering of electrons and $d\sigma_n$, the Mott's differential active cross section is a function of the electron energy. The factor $F(q)$, obtained from the equation is then used for determining the charge density. Equation is not adequate for the scattering by nucleons. Here a further term for scattering due to the magnetic dipole is added. The scattering done by Hofstadter's experiments on He_2^4 , Cl_6^{12} , O_8^{16} and Co_{20}^{40} show a very good agreement with the Slupkovy (pillar) model of a nucleus. In the case of heavier nuclei, the charge distribution can be described by a two parameter division. Experiments with nucleons show that the electromagnetic structures of protons and neutrons are different. Plots

Card 1/2

The electromagnetic structure...

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1037/I237

of distributions of charge in neutrons, protons and their nucleons are given. The existence of nucleons allows for an equal magnetic structure but a different electric structure of protons and neutrons. There are 5 figures and 11 references, including: Hofstadter, R., Rev. Mod. Phys. 28, (1956) 214; Yearian, M. and Hofstadter, R., Phys. Rev. III, (1958) 934; Sobotka, S., Phys. Rev. 118, (1960) 831; Rabi, I., Phys. Rev. 82, (1951) 345.

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KVASNICA, Josef

"Modern physics and philosophy" by Miloslav Kral. Reviewed
by Josef Kvasnica. Pokroky mat fyz astr 7 no.4:243-244
'62.

KVASNICA, Josef

Answer to Miloslav Kral's review of "Modern physics and philosophy."
Pokroky mat fyz astr 8 no.3:178-179 '63.

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"Conversion of atomic nuclei" by V.J.Goldanskij [Gol'danskiy, V.I.], E.M.Lejkin [Leykin, E.M.]. Reviewed by Josef Kvasnica. Pokroky mat fyz astr 8 no. 5:293-294 '63.

"Optical model of the atomic nucleus" by L. Gomolcak, Z. Pluhar, I. Ulehla. Reviewed by Josef Kvasnica.

KVASNICA, J.

"Plasmas and controlled fusion" by D.J. Rose, M. Clark. Reviewed
by J. Kvasnica. Jaderna energie 9 no.3:107-108 Mr '63.

ACCESSION NR: AP4017074

Z/0028/64/000/001/0018/0028

AUTHOR: Kvasnica, Josef (Prague)

TITLE: Nuclear forces

SOURCE: Pokroky matematiky, fyziky a astronomie, no. 1. 1964, 18-28

TOPIC TAGS: meson theory, nuclear force

ABSTRACT: The author outlines the basic methods by which information on nuclear forces is derived, and the present state of the meson theory of nuclear forces. He finds that the meson theory of nuclear forces leads to a qualitative explanation of all the known properties of nuclear forces. At present, there is not one experiment known which would contradict the meson theory. However, it has not yet been possible to determine the interaction law which would make possible a correct quantitative evaluation of all the experimentally known manifestations and results of the nuclear forces. All the results of the meson theory have been derived only in terms of the roughest approximations of the disturbance theory. Since the nuclear forces are not weak, it is not at all clear whether the development of the disturbance theory converges, i. e., whether it has any

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mathematical significance. No other calculation method is known at present. There are many other complications. During the interaction of the high-energy nucleons, new particles are formed; but, at present, there is practically no information on their affect on the nuclear forces. It is concluded that the problem of nuclear forces will probably only be solved after the formation of a general theory of these elementary particles. Orig. art. has: 3 figures and 25 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Mar64

ENCL: 00

SUB CODE: NS

NO REF Sov: 000

OTHER: 002

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KVASNICKA, Josef

Modification of the old foundry and starting production in
the new plant. Slevarenstvi 12 no. 7:254-256 Jl '64.

1. Kovosvit National Enterprise, Sezimovo Usti.

VECHET, Pavel; STACH, Ladislav; KVASNICKA, Josef

Work in the machine molding shop and joint operations.
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'65

1. Departments of Pathology and Internal Medicine, Faculty of Medicine, Charles University, Hradec Králové, Czechoslovakia.

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NAVRATIL, P.

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aortography and renovasography. Cesk. radiol. 19 no.4/5:
311-314 Ag '65.

1. Radiologicka klinika, ustav patologicke anatomie, I. interni
a urologicka klinika lekarske fakulty Karlovy University v Hradci
Kralove, CSSR.

"APPROVED FOR RELEASE: 06/19/2000

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KVASNICA, Josef (Praha)

Nuclear forces. Pokroky mat fyz astr 9 no.1:18-28 '64.

APPROVED FOR RELEASE: 06/19/2000

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p. 370

Vol. 6, No. 19, Oct. 1956
MERCHANISACE ZEMEDELSTVI
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Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 3, March 1957

KVASNICA, L.; DIAS, R.

Plant protection centers and machinery proposed for equipping them. p. 453.
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KVASNICA, L. One opinion about the Semcice Ammonia applicer. p. 39.

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Mechanization of straw removal. p. 354. (MECHANISACE ZEMEDELSTVI, Vol. 7, No. 15, Aug 1957, Praha, Czechoslovakia)

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3 no.4: 333-343 1956.

1. Onkologisches Forschungsinstitut in Bratislava.
(LIPS, neoplasms,
relation to herpes (Ger))
(HERPES,
relation to cancer of lower lip (Ger))

CZECHOSLOVAKIA / General Problems of Pathology. Tumors. U
Comparative Oncology. Human Tumors.

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 13657

Author : Tesarek, Tibor; Kvasnicka, Alojz
Inst : Bratislava Institute of Oncology
Title : Mammary-Gland Carcinoma by Men.

Orig Pub : Neoplasma, 1957, 4, No. 2, 170-172

Abstract : A survey of statistics of mammary-gland carcinoma in men according to data of the Bratislava Institute of Oncology for the period of 1946-1954. Individual cases are described. The problem of the clinical picture, methods of treatment and factors which play a part in the etiology of the given diseases are examined.

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1. Onkologisches Forschungsinstitut, Bratislava, CSR; Institut für Virologie der Tschechoslowakischen Akademie der Wissenschaften, Bratislava.
(HERPES pathol.)
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SAV doc. MUDr. V. Thurzo.

(STOMACH NEOPLASMS)

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1. Oncological Research Institute, Bratislava, CSSR.
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1. Oncological Research Institute, Bratislava, Czechoslovakia.

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Noise in computer rooms and in mechanical data processing central stations. Prac. lek. 17 no. 3:112-115 Ap'65.

1. Oddelení hygieny práce Obvodního ústavu národního zdraví v Gottwaldově (vedoucí: MUDr. F. Malon).

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1. District Health and Epidemiology Station, Gottwaldov.

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Combination of surgical treatment of breast carcinoma with the local application of radioactive phosphorus P32. Neoplasma 9 no.5: 531-535 '62.

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(BREAST NEOPLASMS) (PHOSPHORUS ISOTOPES)

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1. Z radiol. kliniky KU v Praze; predn. prof. Dr. V. Svab.
(SPINE, wds. & inj.
x-ray diag. (Cz))
(WOUNDS AND INJURIES
spine, x-ray diag. (Cz))

KVASNICKA, Ivan (Praha 12, Luzicka 30)

Paramastoid process as cause of faulty position of head. Sborn. lek.
59 no. 11: 347-352 Nov 57.

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v Praze, prednosta prof. Dr. Vaclav Svab.
(OCCIPITAL BONE, a norm.

paramastoid process causing permanent lateroflexion & rotation
of head with limited dorsal flexion in atlanto-occipital
joint)

(HEAD

permanent lateroflexion & rotation caused by paramastoid pro-
cess with limited dorsal flexion in atlanto-occipital joint)

EXCERPTA MEDICA Sec 14 Vol 13/8 Radiology Aug 59

1568. A PARAMASTOID PROCESS AS THE CAUSE OF A LATERALLY TILTED
CARRIAGE OF THE HEAD - Processus paramastoideus als Ursache einer
schiefen Kopfhaltung - Kvasnička I. Radiol. Karls-Univ. Klin., Prag -
FORTSCHR. RÖNTGENSTR. 1958, 88/8 (744-746) Illus. 3

Various developmental anomalies of the upper cervical vertebrae and of the base of
the skull may cause lateral or rotated deviations in the posture of the head. A de-
scription is given of a case in which a paramastoid process extended downward and
forward and formed a neo-arthrosis with the posterior arc of the atlas; the malfor-
mation was associated with a vertebral block.

Melot - Brussels

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Osteoma of the sternoclavicular region. Acta chir. orthop. traum. czech.
26 no.1:27-29 Feb 59.

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(OSTEOMA, case reports,
sternooclavicular (Cz))
(STERNOCLAVICULAR JOINT, neoplasms,
osteoma (Cz))

VLCEK, J.; VACEK, J.; KVASNICKA, I.

Spinal cord injuries. Some experiences with the management and therapy of these injuries. Rozhl. chir. 41 no.9:617-622 S '62.

1. I. chirurgicka klinika fak. vseob. lek. KU v Praze, prednosta prof. dr. J. Pavrovsky Neurologicka klinika fak. vseob. lek. KU v Praze, prednosta akademik K. Henner Rentgenologicka klinika fak. vseob. lek. KU v Praze, prednosta prof. dr. V. Svab.

(SPINAL CORD)

ERBEN, J.; BELOBRADKOVA, J.; STEFAN, H.; GROH, J.; BARTOG, V.;
KRCH, V.; KVASNICKA, J.; NAVRATIL, P.
KLAZAROVA, M., technicka spoluprace; SCHROFLOVA, A., technicka
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Hemodialysis in the treatment of acute uremia (III)
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lekarske fakulty KU v Hradci Kralove; prednostove:
doc. dr. F. Cernik, prof. dr. J. Blecha, prof.
dr. J. Prochazka, doc. dr. J. Svab
(UREMIA) (DIALYSIS) (HYPERKALEMIA) (KIDNEY, ARTIFICIAL)

KVASNICKA, Jan

Distr: 4E3c 2 cys/4E2b(v)

✓ Principles of ventilation and heating in nuclear plants. /?

Jan Kvasnicka and Zdenek Lat (Energo-project, Prague).

Jaderná energetika 5, 307-72(1959).—This summary, compiled both from the literature and the authors' experience, discusses the maintenance of pressure differences between rooms with a different degree of contamination, heating with the waste heat of a reactor, typical examples of ventilation equipment, rate of air circulation for different types of installation, types of filters for radioactive aerosols, and special recommendations.

H. Newsworthy

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KVASNICKA, Jan; MYNAROVA, Olga

Late embolectomy of the abdominal aorta. Rozhl. chir. 37 no.4:241-244
Apr 58.

1. Chirurgicke a interni oddeleni OUNZ v Pisku, prednosta primar MUDr.
Machacek a primar MUDr. Suss. J. K., Pisek, chirurg. odd.

(AORTA, dis.

embolism. of abdom. aorta, late embolectomy (Cx))

KVASNICKA, Jaroslav

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N '62.

KVASNICKA, Jiri, inz.

Ash cellar from prefabricated reinforced concrete parts.
Zel dop tech 11 no.3:83 '63.

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CSSR

CHROBAK L., ANTALOVSKA, Z., POLAK, J., KVASNICKA, J.

1st clinic for Internal Medicine, medical faculty of Charles University
(I. interni klinika lekarske fakulty KU) Hradec Kralove; director:
docent Dr. F. Cernik; Stomatological Clinic of the medical faculty of
Charles University (stomatologicka klinika lekarske fakulty KU) Hradec
Kralove, director: Prof. Dr. L. Sasama, CSc; Pediatric clinic of the
medical faculty of Charles University (detска klinika lekarske fakulty
KU) Hradec Kralove, director: Prof. Dr. J. Blecha, DSc

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*

ERBEN, Josef, GROH, Jindrich, LOMSKY, Radovan; SVAB, Jozef; HEROUT,
Vladimir; NOZICKA, Zdenek; KVASNICKA, Jiri; BARTOS, Vladimir;
KVASNICKOVA, Eva. Technicka spoluprace :SCHROFLOVA, A.

Primary aldosteronism in adrenal cortex carcinoma. II. Sborn.
ved. prac. lek. fak. Karlov. univ. (Hrad. Kral.) 6 no.5:
suppl.:601-607 '63

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Urologicka klinika (prednosta: doc. MUDr. Jozef Svab); Patolo-
gicko-anatomicky ustav (prednosta: DrSc. prof. MUDr. A.
Fingerland) Karlova universita v Hradci Kralove.

GROH, Jindrich; KVASNICKOVA, Eva; KVASNICKA, Jiri; BARTOS, Vladimir;
ERBEN, Josef.

Determination of minerals, proteins and glycogen in muscle.
Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad.Kral.) 6
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1. I. interni klinika (prednosta: prof. MUDr. F.Cernik) Kar-
lova universita v Hradci Kralove.

KVASNICKA, J.

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ERBEN, J; GROH, J; BARTOS, V; KRCH, V; KVASNICKA, J; NAVRATIL,
P; FELIKANOVA, V; SEDLACKOVA, S.

1. First Internal Medicine Clinic LF KU (I. vnitrní
klinika LF KU), Hradec Kralovy; 2. Urological Clinic
LF KU), (Urologická klinika LF KU), Hradec Kralovy

Brno, Vnitrní lekarství, No 9, 1963, pp 892-899

"Our Experience with the Treatment with Hemodialysis
(I. Some Methodological Remarks, Indications and
Analysis of Complications."

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ERBEN, J; GROM, J; BARTOS, V; KROCH, V; KVASNICKA, J; NAVRATIL, P.

1. Chair of Internal Medicine of LFKU (Katedra vnitřního lekarství LFKU), Hradec Králové; 2. Urological Clinic of LFKU (Urologická klinika LFKU), Hradec Králové

Prague, Vnitřní lekarství, No 10, 1963, pp 990-999

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KVASNICKA, Jiri; KVASNICKOVA, Eva; GROH, Jindrich; DANICKOVA, Zdena;
BARTOS, Vladimír; EREBEN, Josef. Techn. spolupráce VAVROVÁ, Eva.

Mineral and water changes during the aging process. I. Methods
of determination of minerals in erythrocytes. Normal values.
Differences between the normal values in women and men. Sborn.
ved. prac. lek. fak. Karlov. Univ. 9 no.1:369-374. '64.

Mineral and water changes during the aging process. II. Mineral
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Ibid.:375-381

I. I. interní klinika (prednosta: prof. MUDr. F. Černík)
Karlov University v Hradci Králové.

ENDRYS, Jiri; STEUWHART, Leo; PROCHAZKA, Jaroslav; SLEZAK, Premysl;
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J. Prochazka) Karlovy University v Hradci Králové.

KVASNICKA, Karel

Technology of shoemaking by injection molding of rubber
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1. Svit, n.p., Gottwaldov.

KVASNICKA, Ol., MUDr, Brno, KHES

Cooperation of the department of work hygiene with the insurance physicians. Pracovni lek. 6 no.5:318-319 15 Oct 54.

(INDUSTRIAL HYGIENE

in Czech., cooperation of department of work hygiene
with insurance physicians)

(HEALTH INSURANCE

in Czech., cooperation with department of work
hygiene)